USIB-D-71.6/2
4 February 1969

UNITED STATES INTELLIGENCE BOARD

MEMORANDUM FOR THE UNITED STATES INTELLIGENCE BOARD

SUBJECT : Intelligence Information Handling Committee Annual Report Update

REFERENCES : a. USIB-D-71.6/1, 9 September 1968
b. USIB-D-71.1/3, 22 October 1968

1. The enclosed memorandum on this subject from the Chairman of the Information Handling Committee (IHC) and its attached report and annexes submits for information and noting by USIB an updating of the First Annual Report of the IHC which was circulated by reference a.

2. A Memorandum for the President from the Director of Central Intelligence on NSAM 368 (Intelligence Information Handling System) which was submitted on 22 October 1968 (see reference b.) contains, among other things, a proposal that the "IHC Annual Report (which will be updated by a summary progress report at the end of the calendar year) be accepted in the future as a normal means of reporting on community information handling activity." Accordingly, in addition to the regular dissemination to the President's Foreign Intelligence Advisory Board, General Robert Taylor plans to forward a copy of the subject report to Dr. Kissinger after it has been noted by the USIB.

3. It is not now planned to schedule this report on an agenda for Board discussion unless specifically requested by a Board Member

USIB-D-71.6/2
4 February 1969

prior to the close of business 12 February 1969. In the absence of such a request, it will be considered for record purposes that the USIB noted the subject report on that date.

[redacted] 25X1A

Executive Secretary

Enclosure

S-E-C-R-E-T

IHC-AR-1/1
31 January 1969

U N I T E D S T A T E S I N T E L L I G E N C E B O A R D

INTELLIGENCE INFORMATION HANDLING COMMITTEE

MEMORANDUM FOR: UNITED STATES INTELLIGENCE BOARD

SUBJECT: Intelligence Information Handling Committee Annual Report (AR-1) Update

REFERENCES: (a) USIB-D-71.6/1, 9 September 1968
(b) USIB-D-71.1/3, 22 October 1968

1. In accordance with the proposal in Reference (b) that an update of the IHC Annual Report be provided at the end of the calendar year, the attached report is hereby submitted. The report updates information handling activities and projects reported in the referenced documents.

2. Full and detailed reporting on a number of efforts mentioned for the first time will be included in the Annual Report to be submitted at the end of FY69.

[redacted]

25X1A

Chairman

GROUP I
Excluded from automatic downgrading and declassification.

Attachment:
As stated

S-E-C-R-E-T

ATTACHMENT

A. Membership.

For Army, Col. Harry N. Roller replaced Col. Raymond W. Kelley as member (effective 9 September 1968), and Lt. Col. Richard H. Koenig replaced Lt. Col. George A. Parsons as Alternate (effective 14 Jan 1969).

25X1A For DIA, [redacted] was designated as Alternate (effective 29 October 1968).

25X1A [redacted] joined the Support Staff as the second DIA member (effective 4 November 1968). [redacted] who was a DIA assignee to the CODIB Support Staff remained as the other DIA member of the Support Staff. 25X1A

B. Reorganization and Restructuring of the IHC and Support Staff.

The three subcommittees of IHC, i.e., Education and Training (E&T), Research and Development (R&D), and System Design and Development (SD&D), were staffed during the last few months of CY 1968. A list of the members and a brief statement of subcommittee responsibilities is contained in the Annexes.

C. Completion of CODIB Task Team Reports - Photo Chip.

In July 1968 the Chairman, IHC initiated correspondence with the Chairman, COMIREX regarding the formation of a Photo Chip Working Group to be sponsored by these two USIB committees in accordance with USIB-D-39.7/24. A member of the IHC Support Staff was designated to work with the Chairman of the National Imagery Data Base Working Group (NIDBWG) to carry out joint work in connection with photo chips. Since that time, several meetings have occurred between the committee designees. IHC Support Staff members have attended NIDBWG meetings including one held at ACIC, St. Louis, Missouri during which photo chip applications in the mapping and charting environment were discussed.

D. Item Register System.

Plans, procedures, criteria, incident to the review and evaluation of various proposed Item Register products are still under development. Delay is due to higher priority demands placed on the IHC Support Staff.

E. Content Control Code Operational Test.

CIA conducted an operational test of the Content Control Code (CCC) applied to SIGINT end product received by teletype. This was done as part of a larger study to determine the relative merits of manual and automatic dissemination within CIA. Insofar as CCC is concerned, the test is (1) to determine if content control codings can be used as a basis for dissemination, (2) to test CCC alone for its usefulness in expressing both technical requirements and broader political and economic requirements for purposes of automatic dissemination, and (3) to test CCC in combination with keywords for representing the contents of documents.

At the end of the calendar year, the CIA test had been completed but the findings and conclusions pertaining thereto had not been announced.

F. Intelligence Subject Code (ISC).

In October 1968 it was determined that DIA could not accept maintenance responsibility of the ISC (previously used and maintained by CIA) because of budget and personnel cuts and the fact that a study is underway to find a replacement for the ISC in DIA/DoD. DIA will inform IHC of the results of their ISC replacement study. In the interim period DIA will record changes made in the ISC to serve DIA/DoD needs only.

G. Government-wide Country Codes Task Group (CCTG).

Basic revisions to the proposals for country code standards have been made as a result of comments received from 54 executive departments and agencies. At the end of this reporting period, the proposed revision had been put in draft form for review and comment by CCTG members.

H. Community On-Line Intelligence System (COINS).

With the exception discussed below, installation of the network for the Community On-Line Intelligence System (COINS) Experiment had been completed by the end of CY 1968. Installation of the low speed teletypewriter circuit and terminal equipment at the National Indications Center (NIC) has been delayed pending receipt of the necessary hardware being procured by the U. S. Air Force.

A teletypewriter circuit from the DIA switch to the Department of State remote query terminal became operational in August. The first round-robin interrogation from the NPIC computer took place on 26 September. While messages have been transmitted between CIA Headquarters and DIA since September, various problems have delayed successful file query on this portion of the system.

The test and analysis period of the experiment has been set back three months, and is now scheduled for 1 April to 30 September 1969. The system will also probably be inoperative at NSA and CIA for a period in February while these agencies switch COINS to new, larger computers. The COINS Master Plan, Part 1, FY 69-70 was submitted to the DCI by the Director, NSA in his capacity as the COINS Executive Agent on 5 December 1968.

I. Information Science Training for Intelligence Personnel.

By the end of December 1968, the Information Science Center at the Defense Intelligence School had three individuals assigned (the Director, Assistant Director, and Secretary). Authority was obtained for a grade of GS-16 for the Director. The position was filled on 9 December 1968. A strength of 22 professional and support positions was planned for the development, initiation, and conduct of two courses. Lack of personnel has delayed initiation of courses.

J. New Activities. Community Information Handling System (CIHS).

A preliminary plan for improving the Community Information Handling System (CIHS) was written, concurred in by USIB, and forwarded to the President. (Memorandum for Holders, USIB-D-71.1/4, 22 October 1968).

Computer Security.

IHC Support Staff liaison was established with the newly established Computer Security Subcommittee of the Security Committee of USIB.

Dr. Willis Ware, Rand Corporation, spoke at an IHC meeting on 15 July 1968 on computer security.

IHC Support Staff Liaison with the Intelligence Guidance Subcommittee (IGS).

In September 1968 liaison was established between the IHC Support Staff and the IGS, SIGINT Committee, USIB.

The IGS is charged with drafting intelligence guidance for COMINT programming. The purpose of this liaison is to ensure that the guidance drafted by this subcommittee is consistent with the information handling responsibilities of the IHC.

K. Department of State.

Substantive Information System (previously reported).

A Request For Proposal on developing elements of the Substantive Information System was prepared and sent to selected companies. A bidders conference was held and the evaluation of responses will begin shortly.

Economic Problem Computations (first reporting).

The Bureau of Economic Affairs has installed a QUICKTRAN (IBM computation support system for commercial use) terminal for manipulation of data and solution of problems, mainly in the field of international trade.

Selected Policy Statements File (first reporting).

During 1968, an automated retrieval system was developed to manage selected kinds of policy statements. Initially, the system was set up to handle statements concerning a single geographic area, but has subsequently been expanded to include statements on general foreign affairs subjects. Approximately 5,000 documents or extracts and associated indexing information are stored, mainly from the period 1965-68.

Latin American Program Analysis (first reporting).

The Bureau of Inter American Affairs (State) and the Bureau for Latin America (AID) are engaged in establishing a data bank of resource commitments to 24 Latin American countries, arranged by objectives in a standard format, as an aid to manipulation and analysis of program allocations. AID computers are used to receive data from country policy and program papers encompassing all U.S. programs.

L. National Security Agency.

VIDEOFILE (previously reported).

The pilot VIDEOFILE system is scheduled for delivery in October 1969. Four files have been selected to test and evaluate the system.

SIGINT On-Line Information System (SOLIS) (first reporting).

An NSA working group has been established to investigate the feasibility of providing an on-line SIGINT information handling system for the intelligence community. The working group will determine the interface requirements between SOLIS and other information handling systems under development, the NSA information requirements, and prepare a plan stating such things as scope and course of action needed for implementation. 25X1D

System for Processing Engineering Data (SPED) (first reporting).

The objective of this system is to provide a capability for the storage, retrieval and processing of research, engineering, and logistic documentation in support of the design, procurement and configuration management functions. Many formats can be included in the documentation including technical reports, technical development plans, engineering drawings, documentation cost and price data, and those other items whose accessability would serve to expedite the design, development, and procurement of new equipments. The system consists of two parts: (a) a Configuration Management System which provides for the management of engineering systems and (b) an engineering and technical information data base. Information can be displayed in visual or graphic form with a hard copy printout capability.

M. Central Intelligence Agency.

Priority Targeting System (first reporting).

Programming, system test and parallel operation of a priority targeting system have been completed for real-time control of a complex collection system.

Central Computer Services (previously reported).

Operational testing of the CAPRI general file management system has been completed. Several large files have been selected for installation into the CAPRI system to test its capability against present processing techniques. 25X1A

Research and Development (previously reported).

The initial feasibility study of an on-line system to assist the intelligence analyst's creation, use and control of a large, all-source data base on military ground forces (QUIKTRAK) has been completed. On the basis of favorable results obtained in this study work is underway to expand the data base, to elaborate the system, and to undertake preliminary operational use of data base modules as they are developed.

N. Defense Intelligence Agency.

DoD Intelligence Data Handling System (previously reported).

The worldwide DoD Intelligence Data Handling System (IDHS) currently includes 56 intelligence computers installed in 24 locations. In addition, there are 28 computers installed in mapping and charting organizations.

Optical Character Reader (OCR) Automatic Indexing and Abstracting (previously reported).

A Philco-Ford Optical Character Reader, with a capability for reading eight selected fonts, was delivered and accepted by DIA in November 1968. The Typist Guides for use by participating stations were distributed in December 1968.

Other Projects (previously reported).

(1) Project ANSRS now has 23 remote query terminals.

(2) The Project COINS switch computer has been converted from an IBM 7740 to an IBM 360/30 and the DIA on-line computer from an IBM 1410 to an IBM 360/50. Conversions were accomplished by 8 November without any appreciable delay in service.

(3) The interim Data Management System being developed to be a machine independent will use COBOL. The expected date of completion is October 1969.

Automated System for Transportation Intelligence (first reporting).

The basic objective of this project is to provide for the storage, maintenance, manipulation, computation, and retrieval of intelligence data on lines of communication (LOC). The initial efforts are to give an operating capability for rail transportation intelligence by May 1969 on an IBM 360/65. Subsequently, the system will include transportation intelligence for highways, inland waterways, pipelines, and civil air.

Project PREMSS (Photo Reconnaissance and Exploitation Management Support System) (first reporting).

The function of this project is to furnish automated support to the complete cycle of intelligence production based on photo reconnaissance. It provides the required data processing support for DIA to effectively support and manage overall DoD participation in the various data bases and systems identified in the National Tasking Plan for the Exploitation of Multi-Sensor Imagery. This system is now operational and is updated daily.

National ELINT Plan (first reporting).

In implementing DIA's responsibilities under the National ELINT Plan, elements in DIA expressed a strong requirement for an improved intelligence data handling capability in the following major areas: (a) maintenance of collection requirements and priorities; (b) capability to levy collection requirements on optimum platforms; (c) evaluation of collection performance; (d) capability to identify intelligence gaps; (e) evaluation of the adequacy of the information and intelligence used in the development of U&S Command EOB publications. A system is being designed to meet these requirements.

AUTODIN (first reporting).

DIA is making use of the DoD AUTODIN for electrical transmissions of a limited number of file update products which fall within the limitations of AUTODIN, i.e., security, (presently Top Secret) length, format, etc.

O. U. S. Army.

Intelligence Data Handling Capabilities (previously reported).

(1) The installation of an IBM 360/40 system at the European Electronic Intelligence Center (EEIC), Weisbaden, Germany.

(2) The installation of a CDC 3300 system at the Missile Intelligence Directorate (MID), Huntsville, Alabama.

(3) The installation of an FMA microfilm document storage and retrieval system at U.S. Army Pacific (USARPAC), Hawaii.

(4) The approval by DIA of the functional requirements for an OACSI, DA intelligence data handling system.

P. U. S. Navy.

Ocean Surveillance (previously reported).

The installation of a direct source input to OSIS from the Net Control Office Lant (BULLSEYE) station was completed.

COMUSMACV J2 ADP Intelligence Support (previously reported).

The WHITE DOVE II deployment at the Pacific Elint Center was cancelled in November 1968. Thus, action was taken to release the Government from contractual agreement made in support of WHITE DOVE II.

The CICV IBM 1401 was replaced by an IBM 360/30 computer system.

Naval Investigative Service (NIS) Data Communication System (previously reported).

The Personnel Management System (PMS) was completed in December 1968 and is due to go into operation 7 January 1969.

Scientific and Technical Intelligence Center (previously reported).

Analysis and design of a multi-file query capability for Armament and Electronic characteristic files was begun.

Reduction of Planned Development of Navy IDHS (first reporting).

Due to budgetary cuts (2.5 million), a number of plans have been adversely affected. Some of these effects are:

(1) Deferral to FY70 of third generation OSIS hardware.

(2) Deferral of Navy's FY69 participation in the IDHS-C plan.

(3) Deferral of CINCPACLFT as an established IDHS organization in FY 69.

(4) Deferral of the STIC acoustic processor system for FY69.

(5) Deferral of some software development for several Navy supported commands and organizations and deferral of other computer support to intelligence.

Q. Air Force.

The DoD Foreign Disclosure System (previously reported).

The management of this system has been transferred to the Economic Affairs and Foreign Disclosure Directorate, OASD/ISA.

R. Federal Bureau of Investigation.

National Crime Information Center (NCIC) (first reporting).

The NCIC provides a real-time system designed to provide speedy access to participating police agencies throughout the country to certain specified types of police information on file with the NCIC. Specifically, the items of information presently stored in the NCIC include stolen motor vehicles, stolen, missing, or recovered guns, stolen license plates, other stolen articles, stolen securities, and wanted persons. The NCIC became operational in a pilot study phase on January 27, 1967, with approximately 23,000 records in file and a limited number of participants having remote access to the file.

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The NCIC network now comprises 76 control terminals (including ten computer-to-computer interfaces) in 45 states, the District of Columbia, [redacted] Records filed as of December 1, 1968, total 743,950. Continued growth in the size of the file and the number of participants is anticipated as well as additional applications to other types of file material.

✓ Possible Automation of Fingerprint Searching (first reporting).

The FBI has been seeking a means to read fingerprints electronically and, toward this end, contracts are presently pending in private industry for development of a bread-board model of a device capable of scanning ink fingerprint impressions and correctly identifying certain pertinent points for purposes of classification. It is not known at this time when the bread-board model will be available.

✓ Pilot Study for Automation of the FBI General Index (first reporting).

A pilot study was begun in 1968 to determine the feasibility of searching the information contained in the Bureau's central card index (54 million 3x5 index cards). The pilot study is in its initial stages. A limited number of cards have been converted into machine language. A search program has been devised and initial tests are underway to check the thoroughness of this search program. Early in 1969, a much larger sample of index cards will be converted into machine language for use in the pilot study, and a more sophisticated search program will be applied to this file holding for test purposes.

C-O-N-F-I-D-E-N-T-I-A-L

ANNEX A

EDUCATION AND TRAINING SUBCOMMITTEE

MEMBERS

Mr. John D. Adams, Chairman

Mr. William J. Trainor, Jr., State

25X1A [redacted], NSA

25X1A [redacted]

25X1A [redacted] DIA

Mr. Donald L. Southall, Army

Mr. Edward L. Barker, Navy

Maj. Harlan L. Bruha, Air Force

Mr. Donald W. Stigers, Executive Secretary

SUBCOMMITTEE RESPONSIBILITIES

This Subcommittee is responsible for determining present and future intelligence community requirements for education and training in information sciences and intelligence information handling, and for making recommendations for the satisfaction of these requirements. The Subcommittee will keep the community informed of all sources of education and training in this field, both within and outside of the government.

C-O-N-F-I-D-E-N-T-I-A-L

C-O-N-F-I-D-E-N-T-I-A-L

ANNEX B

RESEARCH AND DEVELOPMENT SUBCOMMITTEE

MEMBERS

Dr. Howard H. Campaigne, Chairman, NSA

25X1A [redacted] NSA

25X1A [redacted]

25X1A [redacted]

Mr. Donald A. Lakatosh, Army

Mr. Edward L. Barker, Navy

Mr. Roger Weber, Air Force

Dr. John F. Egan, DoD

Mr. James T. Tippett, Executive Secretary

SUBCOMMITTEE RESPONSIBILITIES

This Subcommittee will be responsible for identifying community needs for R&D in information handling; for recommending an R&D program to meet community needs in information handling; for recommending a specific agency assignment of community R&D activities; for monitoring the information science activities of the experiment research activities in the community agencies; and for keeping the intelligence community informed on scientific and technical aspects in information sciences.

C-O-N-F-I-D-E-N-T-I-A-L

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ANNEX C

SYSTEM DESIGN & DEVELOPMENT SUBCOMMITTEE

MEMBERS

Mr. J. Neil Wallace, Chairman

Mr. Charles R. Stein, State

25X1A [redacted] NSA

25X1A [redacted] CIA

25X1A [redacted] DIA

Mr. Marlin R. Makin, Army

Mr. Carl R. Lambert, Navy

Mr. Charles Mangio, Air Force

Mr. Harrison Williams, Secret Service

Mr. Howard E. Lewis, Jr., AEC

Mr. Rudolph J. Susege, Executive Secretary

SUBCOMMITTEE RESPONSIBILITIES

This Subcommittee will assist the Committee in carrying out its responsibilities in the general area of system design and development. The Subcommittee will engage in the development of system requirements, conceptual design specifications, and subsequent recommendations for agency assignment of systems implementation for document processing and community systems for information storage and retrieval. It will assist as necessary in the development of an ADP system to support NIC; the development of a program for a follow-on COINS-type system; the study of bibliographic control of foreign publications; and similar tasks.

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